

WHAT IS CLAIMED IS:

1. A method of designing a semiconductor circuit having clock trees, the method comprising the steps of:
  - generating a netlist;
  - 5 inserting a plurality of delay gates onto said netlist;  
place;
  - generating said clock trees which satisfy a constraint of a timing in said clock tree;
  - route;
  - 10 manually adjusting a skew between said clock trees by deleting some of said inserted delay gates based on the constraint of the timing between said clock trees;
  - examining the skew between said clock trees;
  - determining whether the constraint of the timing is
  - 15 satisfied or not; and
  - making a minimum change in the place and route in association with the insertion of said delay gates.
2. The method of designing a semiconductor circuit according to claim 1, wherein in the step of place, a plurality of delay
- 20 gates on said clock line are collectively placed.
3. The method of designing a semiconductor circuit according to claim 1, wherein in the step of place, a plurality of delay
- 25 gates on said clock line are collectively placed and a large region

is assured.

4. The method of designing a semiconductor circuit according to claim 2, wherein in the step of adjusting a skew between trees, said delay gates at the first and last stages among said inserted delay gates are not regarded as targets to be deleted.

5. The method of designing a semiconductor circuit according to claim 3, wherein in the step of adjusting a skew between trees, said delay gates at the first and last stages among said inserted delay gates are not regarded as targets to be deleted.

6. A semiconductor circuit having clock trees, said semiconductor circuit being designed using a designing method comprising the steps of:

generating a netlist;

inserting a plurality of delay gates onto said netlist;  
place;

generating said clock trees which satisfy a constraint of a timing in said clock tree;  
route;

manually adjusting a skew between said clock trees by deleting some of said inserted delay gates based on the constraint of the timing between said clock trees;

examining the skew between said clock trees;

